

# Antenna Installation Instructions

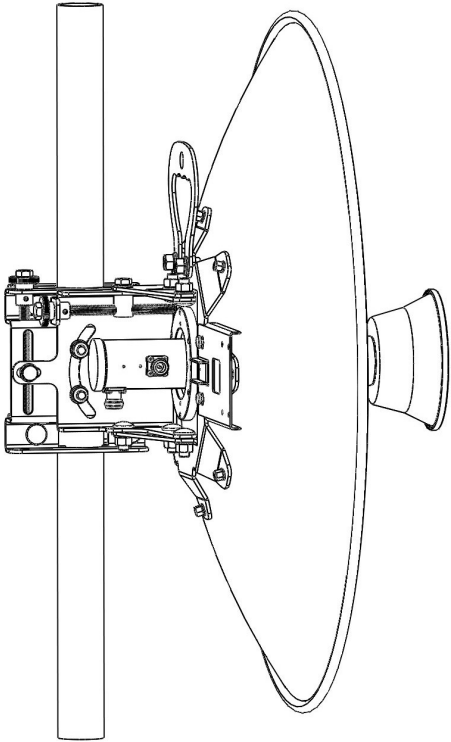
Part Number: HW4961-29.48D-HP

## Description



This antenna consists of a 0.6 m reflector, feeder and antenna mounting bracket. The mounting bracket is designed for installation on vertical pipe of diameter 35mm to 75mm. The precise antenna mounting bracket provides adjustment ranges of  $\pm 19^\circ$  fine elevation and  $\pm 11^\circ$  fine azimuth. Unique feature of honorwave mounting bracket is the “Radio Installation Plate “. This plate makes it easy to align antenna while radio is installed on the mount.

**Notice**

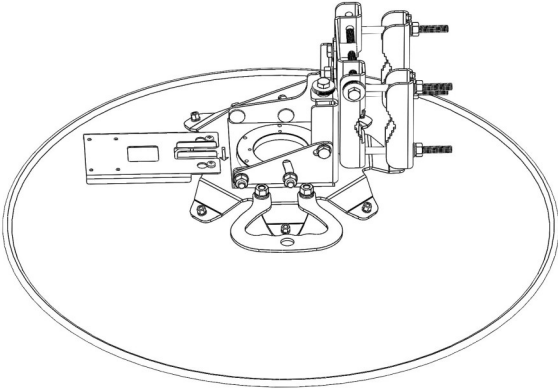
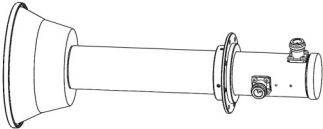
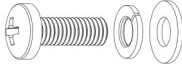
The installation, maintenance or removal of antenna systems requires qualified, experienced personnel. This installation instructions have been written for such personnel. Antenna systems should be inspected once a year by qualified personnel to verify proper installation, maintenance, and condition of equipment. Honorwave disclaims any liability or responsibility for the results of improper or unsafe installation practices.



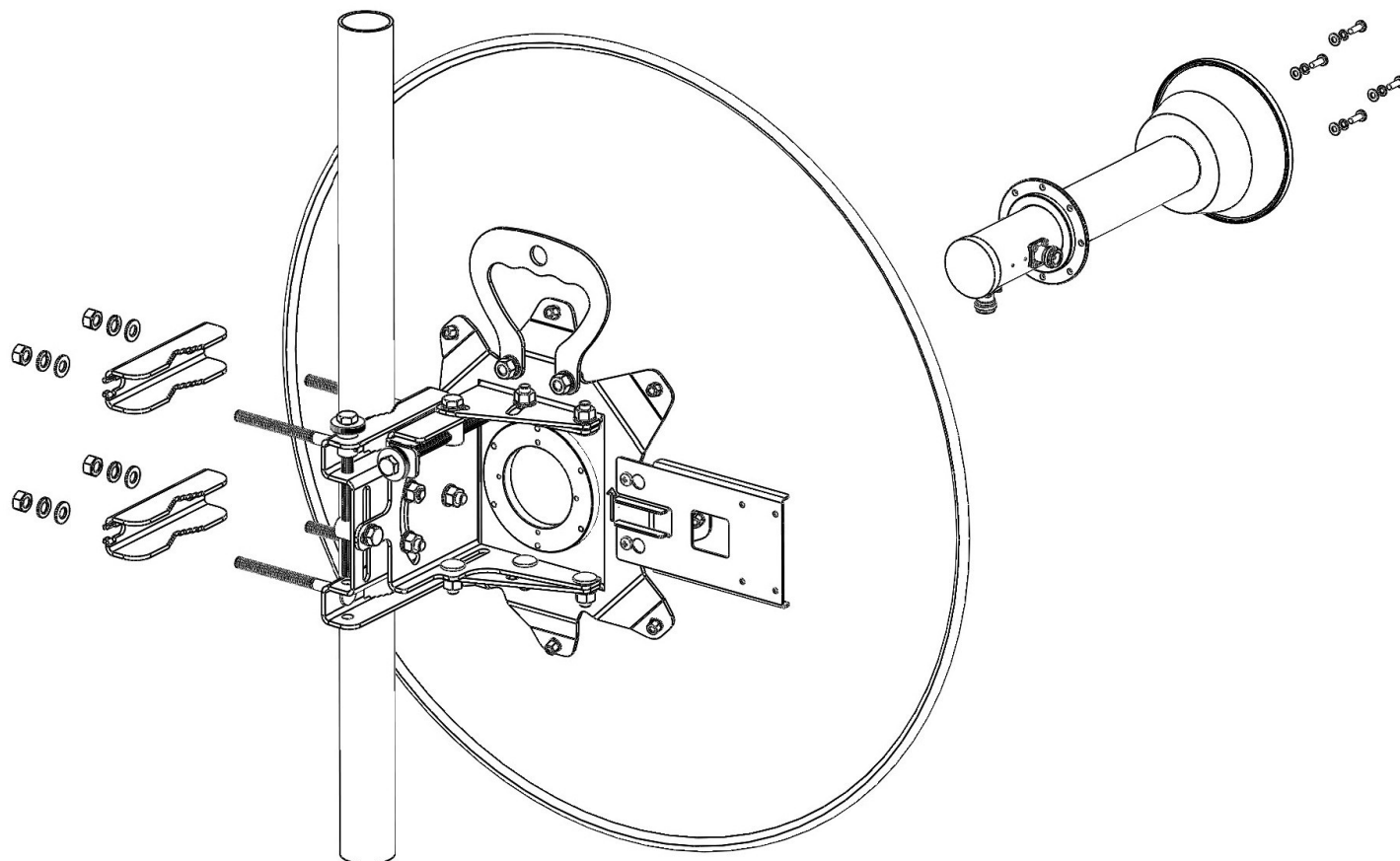
## Tools Required

Item	Contents	Qty	Image
1	Combination Wrench, 13mm	1	
2	Screwdriver, cross-recess	1	

## Part List

Item	Contents	Qty	Description / Image
A	Reflector 0.6m & Mounting	1	
B	Feeder	1	
C	Screw M4x12, Cross, st	4	Feed to Reflector 
D	Spring Washer M4, st	4	
E	Washer M4, st	4	
F	Installation Guide	1	

## Installation



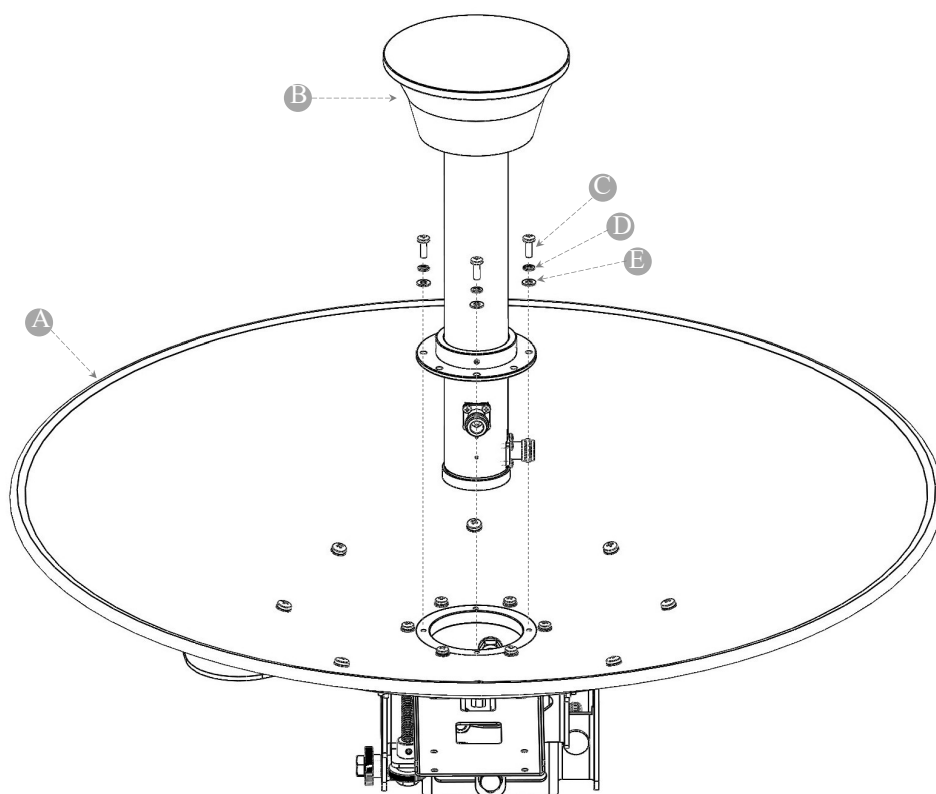
### 1 Install Feed to Reflector

Install Feed [B] to Reflector [A] by:

[C] Screw M4x12; 4 pcs

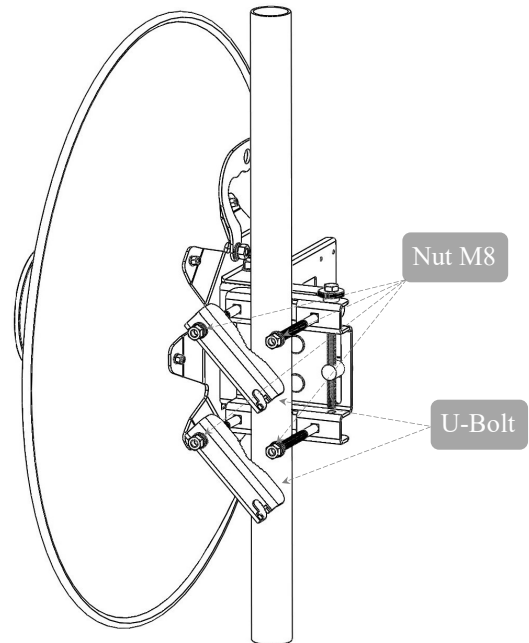
[D] Spring Washer M4; 4 pcs

[E] Washer M4; 4 pcs



## 2 Attach Antenna to Mounting Pole

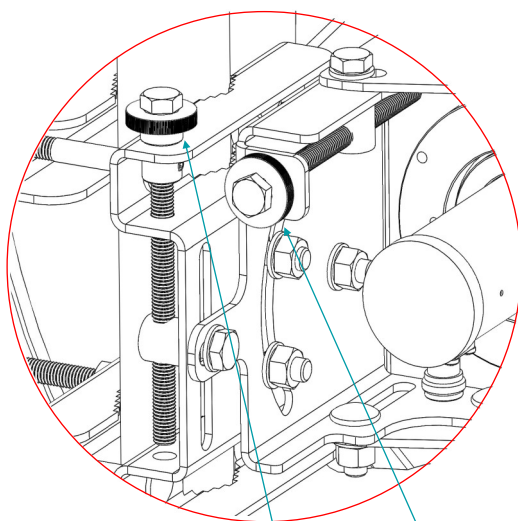
Follow the picture to attach antenna to mounting pole then place the U-bolts on the M8x120 Screws and tighten M8 nuts.



## 3 Adjust Azimuth and Elevation

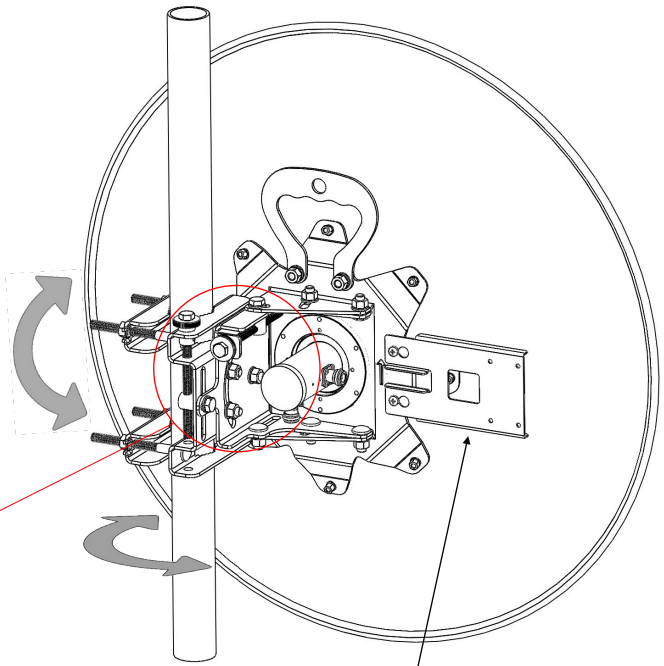
After an approximate alignment , both elevation and azimuth could be precisely adjusted by tightening/ loosening the elevation and azimuth screws shown in picture.

When azimuth/elevation are set , tighten all nuts to approximately 14N-m (10 lb-ft).



Elevation Adjustment  
Screw

Azimuth Adjustment  
Screw



**Important:**  
The Radio Installation Plate on the Mounting bracket  
is to install radio box .

## TECHNICAL DATA SHEET

### General Specifications

Model Number	HW4961-29.48D-HP
Diameter (ft/m)	2/0.6
Polarization	Dual (Vertical and Horizontal)

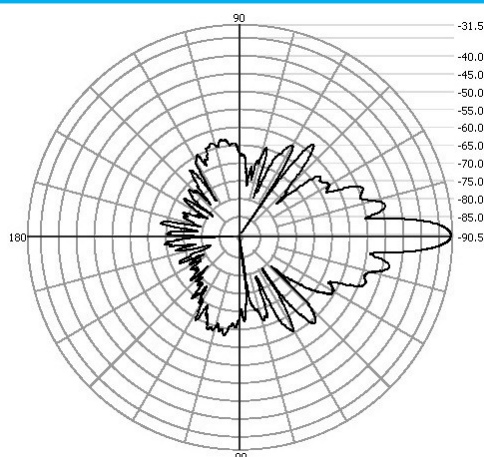
### Electrical Specifications

Input	2 × N-Female
Frequency Range (MHz)	5 GHz ISM Band
VSWR	1.4:1
Impedance ( $\Omega$ )	50
Gain (dBi)	29.48
3dB Beamwidth	H-plane: 5.2° / E-plane: 5.2°
F/B Ratio (dB)	40

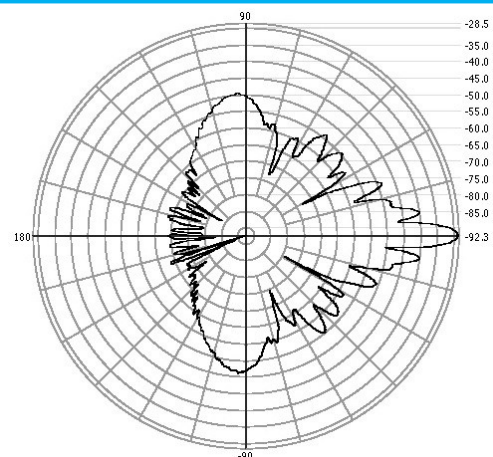
### Mechanical Specifications

Weight With Holder (kg)	5 kg
Color	Golden
Plating	Dacromet
Screws and Nuts	Dacromet
Fine Azimuth Adjustment	$\pm 11^\circ$
Fine Elevation Adjustment	$\pm 19^\circ$
Wind Loading (km/h)	200
Operating Temperature	-40 °C to 60 °C
Supportable Comparative Damp	90%

### Patterns



E-Plane



H-Plane

For further technical support leave message at

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whatsapp: +964 770 607 7724 8 A.M - 5 P.M (GMT+3)

All messages will be answered in 2 working days.